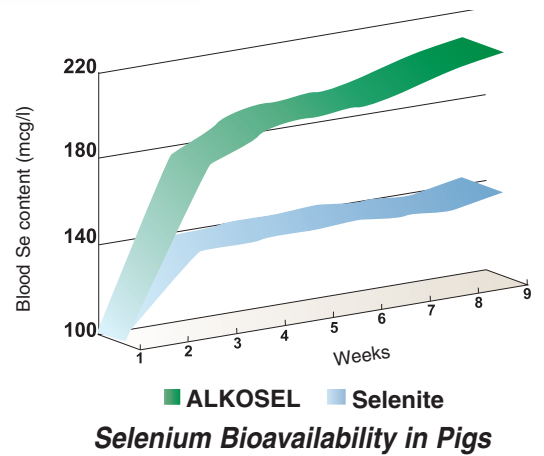


ALKOSEL is an inactivated whole cell yeast product containing elevated levels of **organic Selenium**.

Occurring in its natural food form **L(+)** Selenomethionine, Selenium contained in **ALKOSEL** is **highly bioavailable**.

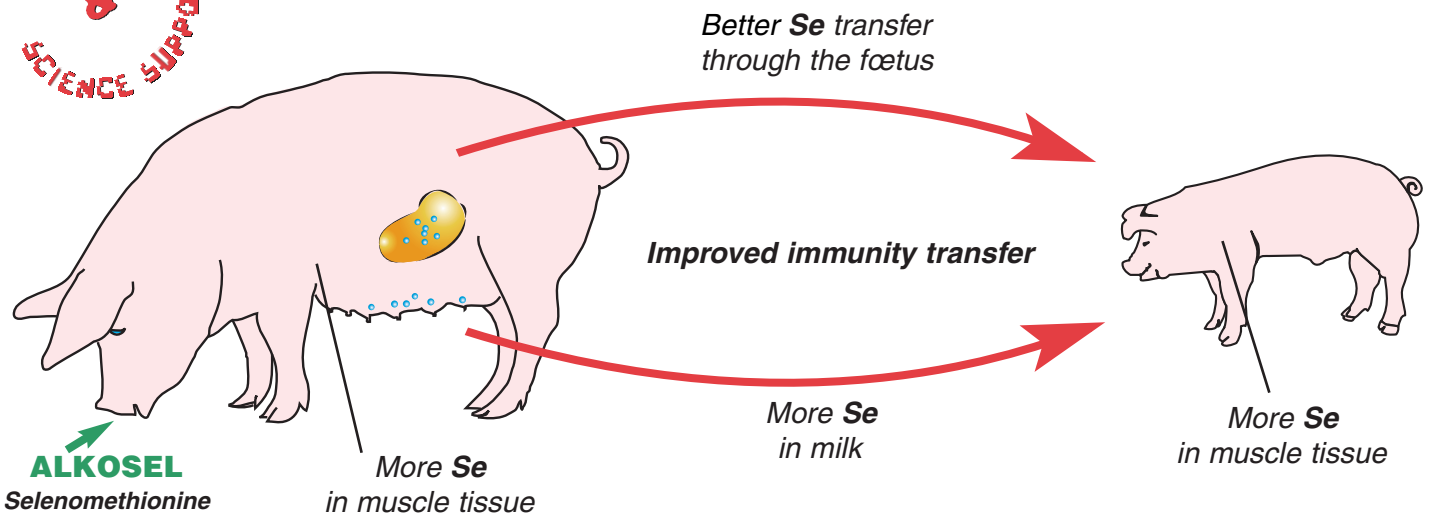
This greater bioavailability ensures improved Selenium reserves for the animal as well as an enhanced Selenium transfer to the piglet through the foetus, and the milk.

ALKOSEL is a unique form to deliver Selenium benefits in pigs.



FIELD LED
&
SCIENCE SUPPORTED

ALKOSEL® : the unique form to balance Selenium requirements in Pigs



Increase of Selenium Reserves		Improved Transfer of Maternal Selenium
Health / Reproduction	Products Quality	
<ul style="list-style-type: none"> ➤ Semen Quality (volume, motility, ...) ➤ Farrowing Duration 	<ul style="list-style-type: none"> ➤ Milk Quality : <ul style="list-style-type: none"> ➤ Incidence of subclinical mastitis ➤ Milk Se content 	<ul style="list-style-type: none"> ➤ Immune Status Improved transfer of passive immunity and better resistance to stress ➤ Muscular Tone Lower risks of occurrence of muscular deficiencies ➤ Selenium Deficiencies
<ul style="list-style-type: none"> ➤ Stress Resistance Reinforced immune status 	<ul style="list-style-type: none"> ➤ Meat Quality : <ul style="list-style-type: none"> ➤ Drip Loss ➤ Oxidation risks (colour, pH, shelf life) 	
<ul style="list-style-type: none"> ➤ Selenium Deficiencies 		



ALKOSEL® : A Concentrate of Selenomethionine

Manufactured within Lallemand facilities, **ALKOSEL** is obtained by fermentation of selected strains of *Saccharomyces cerevisiae* grown in the presence of measured amounts of Selenium.

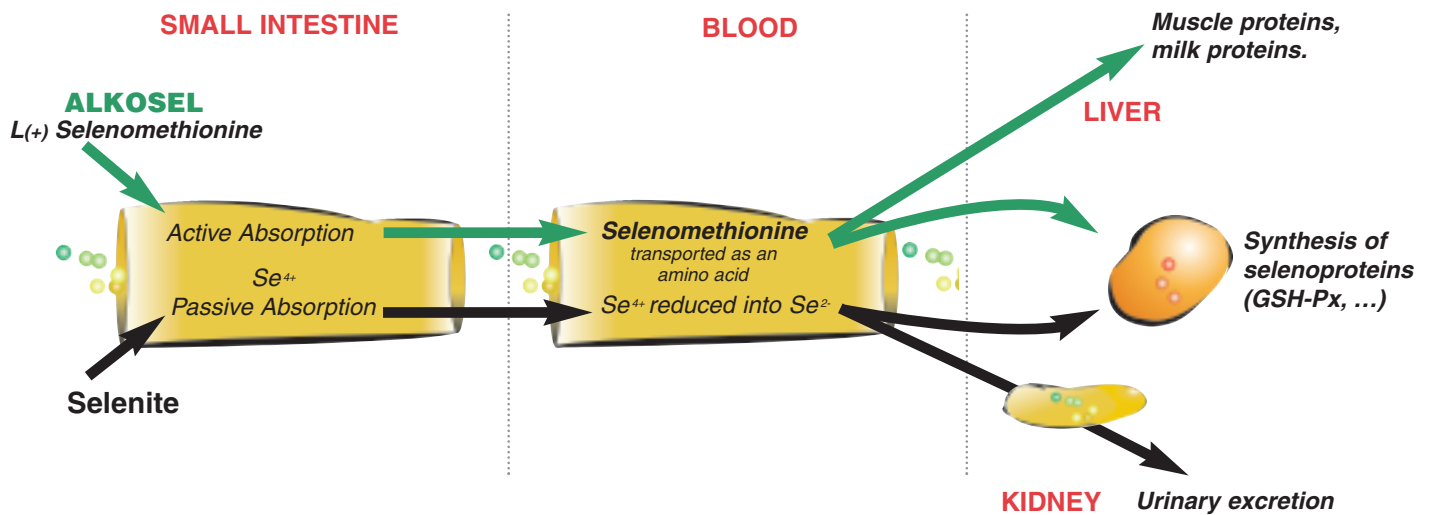
During fermentation, live yeast cells absorb surrounding Selenium and store it as L(+) Selenomethionine.

Selenomethionine is a highly bioavailable form of Selenium for animals.

L(+) Selenomethionine content is analysed, standardised and guaranteed for each manufacturing batch.



ALKOSEL® / Selenite : A Different Mode of Absorption



Contrary to classic inorganic Selenium, organic Selenium contained in **ALKOSEL** remains stable and is absorbed as an amino acid.

L(+) Selenomethionine is the same natural form of Selenium as found in plants and cereals.

The high concentration of L(+) Selenomethionine in **ALKOSEL** guarantees improved Selenium absorption for the animal within the small intestine.

Selenium and Vitamin E have a complementary role to protect cell against oxidation. **Vitamin E** has a protective action at the cell wall level whereas **Selenium** acts at the intracellular fluid level. A good combination of antioxidants ensures an optimal protection of cells integrity.

ALKOSEL® : Recommended Use

	Sows	Piglets	Fattening Pigs	Boars
Inclusion stage	Gestation/Lactation	Starter Feed up to 30 kg	Growth 30 kg to slaughter	Reproduction
Compound Feed (in g of ALKOSEL/ton)	50 - 150 g/t* ie 0.1 to 0.3 ppm of Se	50 - 150 g/t* ie 0.1 to 0.3 ppm of Se	100 - 200 g/t* ie 0.2 to 0.4 ppm of Se	200 g/t* ie 0.4 ppm of Se

* These recommendations have to be adjusted according to the physiological status of the animal and to the specificity of the diet. Maximum total Selenium level in compound feed is 0.5 ppm.